

Shadowstar

by Arya Akhavan (June 2013)

Angles for R.I. = 1.610

36 + 10 girdles = 46 facets

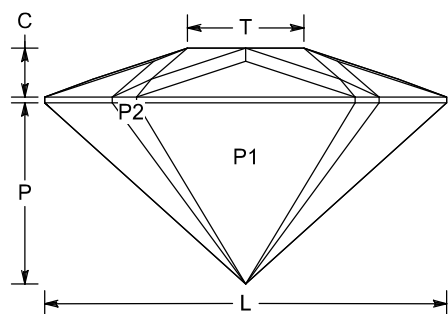
5-fold, mirror-image symmetry

80 index

$L/W = 1.051$ $T/W = 0.305$ $U/W = 0.290$

$P/W = 0.473$ $C/W = 0.127$

$Vol./W^3 = 0.179$



PAVILION

P1	45.80°	80-16-32-48-64	Cut to centerpoint.
P2	41.21°	08-24-40-56-72	Meet at culet.
G1	90.00°	80-16-32-48-64	Set stone size.
G2	90.00°	08-24-40-56-72	Level girdle.

CROWN

C1	24.21°	80-16-32-48-64	Set girdle width.
C2	21.21°	08-24-40-56-72	Level girdle.
C3	20.49°	02-14-18-30-34-46-50-62-66-78	Meet G1, G2, C1, C2
C4	15.53°	08-24-40-56-72	Meet C2, C3
T	0.00°	Table	Meet C3, C4

I was working on so called "ribbon designs", where a frosted thin line on the crown makes a picture, and I came up with this. Screw the frosting, this reflector design turns out great, even in ridiculously low RI materials! Works in materials from fluorite to CZ (RI = 1.43 - 2.16) with no changes, but I prefer it in champagne topaz. Suggested size = 6-12 mm

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